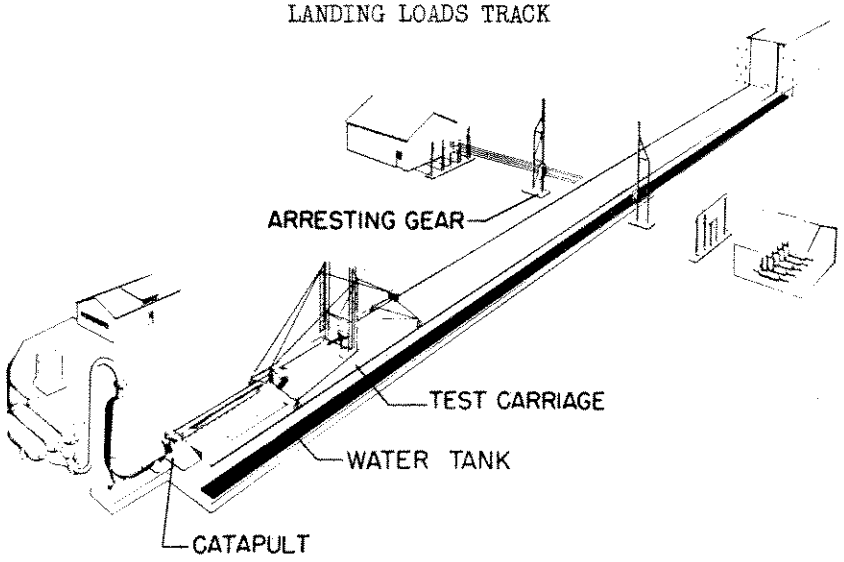
DLD Bldg. 1257 through 1262
6-1-66

LANDING LOADS TRACK



Test carriage travels on steel rails, straddles a concrete track 2,177 feet long, contains a drop frame to which a landing gear specimen is attached. Test carriage is catapulted to the desired speed, the drop frame is released from a predetermined height, and a landing is duplicated.

Loads and motions are measured during impact with the concrete track. In addition research on drag on landing gear due to slush, breaking friction under different conditions (dry, wet, slush, etc.).

Forward speed, 150 miles per hour
Vertical impact velocity 18 f.p.s.
Drop weight 6,500 to 20,000 pounds

A water basin that parellels the Landing Loads Track is used for hydrodynamic testing. Water basin is 8 feet wide, 5 feet deep, 2,177 feet long.

Forward speed of hydrodynamics test carriage, 150 miles per hour.

Operational - 1955

Cost:

Fiscal Year	R & D	C of F	Project Number
1951		$ 2,500,000	911
1952	$678,496		
1953		44,000	1531
1954	23,000	284,500	1531
1955		821,063	1531
1965	8,520		
Total =	$710,016	$ 3,649,563	